

### REST AVAILABLE COPY

In Re Patent Application
WACHTFOGEL et al. - NDS Technologies Israel Ltd.
ADVANCED TELEVISION SYSTEM
SN 09/515,118; Filed February 24, 2000

PATENT 78746 GTS/cb

June 21, 2000

JUN 2 3 2000

Information Disclosure Statement; Form PTO -1449; Cited Before Cost, Postcard

Assistant Commissioner for Patents

Sir.

Please acknowledge receipt of the above-identified documents by apparent the Patent and Trademark Office receipt hereto and mailing this Fund.

Respectfully submitted,



#### N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application Of

Wachtfogel et al.

Serial No.:

09/515,118

Filing Date:

February 28, 2000

For: ADVANCED TELEVISION SYSTEM

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents / Washington, DC 20231, on this date

Date: June 21, 2000

Gerald T. Shekleton, Reg. No. 27,466

#### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. The listed Documents are US patents, foreign patents and other cited documents and are enclosed herewith.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

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Serial No. 09/515,118

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Respectfully submitted,

WELSH & KATZ, LTD.

ald Thebet

Gerald T. Shekleton

Registration No. 27,466

Dated: <u>June 21, 2000</u>

Welsh & Katz, Ltd.

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Chicago, Illinois 60606

Telephone: 312/655-1500





Form PTO-1449 (Rev. 8-88)

### U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.
78746

Applicant
Wachtfogel et al
Filing Date
February 24, 2000

Serial No.
09/515,118

Group No.
2713

## INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

		U.	S. PATENT DOCUMENTS				
Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing D	
	4,080,626	03/1978	Hurst et al.				
	4,272,787	06/1981	Michael et al.				
	4,488,179	12/1984	Kruger et al.				
	4,706,121	11/1987	Young				
	4,768,095	08/1988	Wada et al.				
	4,774,582	09/1988	Hakamada et al.				
	4,777,531	10/1988	Hakamada et al.				
	4,924,732	05/1990	Hoskins et al.				
	5,038,211	09/1991	Hallenbeck				-
		FOR	EIGN PATENT DOCUMENTS		······································	· • · · · ·	•
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	Document Number	Date 06/1989	GB	Class	Subclass	Yes	No
	2210526	00/1909	GB				
	96/33579	10/1996	WO				
	96/37058	11/1996	WO	-			
	97/27705	07/1997	WO				
1_	OTHER DO	CUMENTS (I	ncluding Author, Title, Date, Pertir	nent Pages, E	itc.)	<u> </u>	
	Gilbert et al., The Ro	le of Intellig	ent Agents in the Information In	frastructure			
	www.raleigh.ibm.com/iagptc2.html  John Maissel, Double Agent Infopack: A Collection of Papers Relating to Phillip's Double Agent System						
	May 1998	_					
	Symposium Proceed	ings Mexico,					
	1998, Source: Applic	ations TC	, Bethesda, Applications for Ho				
	Gessler et al., PDAS pp53-59	S as Mobile	WWW Browsers, 1995, Comput	ter Networks	and ISDN S	Systems,	Vol. 2
-	Matsukura et al., M	ultimedia N	otebook: Information Capturing nun., Vol. E78-B. NO. 10, pp.1381	<b>Technolog</b> -13 <b>8</b> 5	ies for Port	able Con	nputer
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Form PTO-1449 (Rev. 8-88) U.S. Department of Commerce Patent and Trademark Office

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		U.	S. PATENT DOCUMENTS				
Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing D	
	5,046,093	09/1991	Wachob				
	5,189,517	02/1993	Ohara				····
	5,191,423	03/1993	Yoshida		-		
	5,323,240	06/1994	Amano et al.				
	5,390,027	02/1995	Henmi et al.				
	5,396,545	03/1975	Nair et al.				
	5,410,326	04/1995	Goldstein				
	5,410,344	04/1995	Graves et al.				
		FORI	EIGN PATENT DOCUMENTS	<u>_</u>		<u>i</u>	
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	Document Number	Date	Country	Class	Subclass	Yes	No
	97/29592	08/1997	WO .				
	97/48230	12/1997	WO				
	97/50250	12/1997	wo				•
	98/16062	04/1998	WO				
	99/03275	01/1999	WO				
	OTHER DOO	CUMENTS (II	L	nent Pages. E	tc.)	11	
	Kato et al., A Porta	ble Commui	nication Terminal for Novices E78-B. NO. 10, pp.1387-1393	-	-	oftware,	Octob
-	•	ding the Sec	cond Interaction Metaphor in a	Real 3D Virt	ual Environn	nent, 199	5, SPI
	Fah-Chun Cheong, I	nternet Agen	ts: Spiders, Wanderers, Broker	rs, 'Bots, 1996	6, pp. 4-35,38	7-390	
	E.I Persoon Smash-	A Concept i	for Advanced Use of Storage in	the Home, X	P-002117666		
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IBM Corporation Home Page, Intelligent Agents, www.raleigh.ibm.com/iag/iaghome.html

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U.S. Department of Commerce Patent and Trademark Office

Serial No. 09/515,118 Attorney Docket No. 78746 Applicant Wachtfogel et al

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Filing Date February 24, 2000

Group No. 2713

#### **U.S. PATENT DOCUMENTS**

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,436,676	07/1995	Pint et al.			
	5,444,499	08/1995	Saitoh			
	5,446,488	09/1995	Vogel			
	5,465,113	11/1995	Gilboy			
	5,481,752	01/1996	Suzuki et al.			
	5,483,278	01/1996	Strubbe et al.			
	5,488,571	01/1996	Jacobs et al.			
	5,515,106	05/1996	Chaney et al.			-
:	5,517,187	05/1996	Bruwer et al.			

#### FOREIGN PATENT DOCUMENTS

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Document Number	Date	Country	Class	Subclass	Yes	No
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	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
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		U.	S. PATENT DOCUM	ENTS									
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	5,519,448	05/1996	Nagasawa et al.										
	5,526,401	06/1996	Roach, Jr. et al.										
	5,530,469	06/1996	Garfinkle										
	5,535,147	07/1996	Jacobs et al.										
	5,539,449	07/1996	Blahut et al.										
	5,556,107	09/1996	Carter					**					
	5,561,708	10/1996	Remillard										
	5,561,709	10/1996	Remillard			-							
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Applicant
Wachtfogel et al
Filing Date Group No.
February 24, 2000 2713

#### **U.S. PATENT DOCUMENTS**

Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
5,566,069	10/1996	Clark, Jr. et al.			
5,583,560	12/1996	Florin et al.			
5,585,865	12/1996	Amano et al.			
5,585,858	12/1996	Harper et al			
5,619,250	04/1997	McClellan et al.			
5,619,251	04/1997	Kuroiwa et al.			
5,621,473	04/1997	Hill			
5,621,456	04/1997	Florin et al.			
5,623,690	04/1997	Palmer et al.	·		
	5,566,069  5,583,560  5,585,865  5,585,858  5,619,250  5,619,251  5,621,473  5,621,456	5,566,069       10/1996         5,583,560       12/1996         5,585,865       12/1996         5,585,858       12/1996         5,619,250       04/1997         5,619,251       04/1997         5,621,473       04/1997         5,621,456       04/1997	5,566,069       10/1996       Clark, Jr. et al.         5,583,560       12/1996       Florin et al.         5,585,865       12/1996       Amano et al.         5,585,858       12/1996       Harper et al         5,619,250       04/1997       McClellan et al.         5,619,251       04/1997       Kuroiwa et al.         5,621,473       04/1997       Florin et al.         5,621,456       04/1997       Florin et al.	5,566,069       10/1996       Clark, Jr. et al.         5,583,560       12/1996       Florin et al.         5,585,865       12/1996       Amano et al.         5,585,858       12/1996       Harper et al         5,619,250       04/1997       McClellan et al.         5,619,251       04/1997       Kuroiwa et al.         5,621,473       04/1997       Florin et al.         5,621,456       04/1997       Florin et al.	5,566,069       10/1996       Clark, Jr. et al.         5,583,560       12/1996       Florin et al.         5,585,865       12/1996       Amano et al.         5,585,858       12/1996       Harper et al         5,619,250       04/1997       McClellan et al.         5,619,251       04/1997       Kuroiwa et al.         5,621,473       04/1997       Hill         5,621,456       04/1997       Florin et al.

#### FOREIGN PATENT DOCUMENTS

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U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.
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#### **U.S. PATENT DOCUMENTS**

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,629,733	05/1997	Youman et al.			
	5,635,978	06/1997	Alten et al.			
	5,635,989	06/1997	Rothmuller			
	5,654,747	08/1997	Ottesen et al.			
	5,657,072	08/1997	Aristides et al.			
	5,666,645	09/1997	Thomas			
	5,671,226	09/1997	Murakami etal.			
	5,675,390	10/1997	Schindler et al.			
	5,675,524	10/1997	Bernard			

#### FOREIGN PATENT DOCUMENTS

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U.S. Department of Commerce

Attorney Docket No.

Serial No.

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Examiner Initial*	Document Number	Date	Nam	e	Class	Subclas	Filing	Date propriate
iiiiidi	5,701,383	12/1997	Russo et al.					
	5,708,840	01/1998	Kikinis et al.					
	5,721,815	02/1998	Ottesen et al.					
	5,721,878	02/1998	Ottesen et al.				-	
	5,727,060	03/1998	Young					
	5,728,998	03/1998	Novis et al.					
	5,737,527	04/1998	Shiels et al.					
	5,751,883	05/1998	Ottesen et al.					
	5,752,244	05/1998	Rose et al.					
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applicant.

Form PTO-14 (Rev. 8-88)				rk Office 78746		Docket No. Serial No. 99/515,118			
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	-	U.	S. PATENT DOCUME	ENTS					
Examiner Initial*	Document Number	Date	Name	e	Class	Subclass	Filing C	Date opriate	
	5,754,773	05/1998	Ozden						
	5,760,821	06/1998	Ellis et al.	· · · · · · · · · · · · · · · · · · ·					
	5,767,893	06/1998	Chen et al.						
	5,767,896	06/1998	Nemirofsky						
	5,774,186	06/1998	Brodsky	<u>, , , , , , , , , , , , , , , , , , , </u>					
,	5,710,605	01/1998	Nelson						
	Des 328,878	08/1997	Erlin	-					
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*Examiner:	Initial if citation cons	idered, wheth	ner or not citation is in not considered. Inclu	conformance w	ith MPEP	609; Draw	line through	h )	

applicant.



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**PATENT** 

78746

In Re Patent Application

Wachfogel, et al.,.

Advanced Felevision System
Serial No. 0 9/515,118

Filed: February 28,2000

Information Disclosure Statement; Form PTO-1449; Cited References; and Certificate of Mailing

Assistant Commissioner for Patents

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Serial No.:

09/515,118

Filing Date:

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For: ADVANCED TELEVISION SYSTEM

the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for

Date: July 5, 2000

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WELSH & KATZ, LTD.

Gerald T. Shekleton

Registration No. 27,466

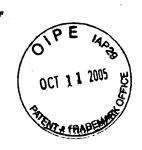
Dated: July 5, 2000 Welsh & Katz, Ltd.

120 South Riverside Plaza, 22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500

Form PTO-1449 (Rev. 8-88)	9 U.S. Department of Commerce Patent and Trademark Office		nt of Commerce demark Office	Attorney Dock 78746	et No.	Ser <sup>09</sup> /5	ial No. 15,118	
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		U.S	S. PATENT DOCUME	NTS				
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fln Re Patent Application Wachfogel, et.al.,. Advanced Television System Serial No. 09/515,118 PATENT

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Applicant:	Wachtfogel,et.al.,	) Phereby certify that this paper is being deposited.
Serial No.:	09/515,118	<ul> <li>with the United States Postal Service as first class mail</li> <li>in an envelope addressed to: Assistant Commissioner</li> </ul>
Filed:	February 28, 2000	) for Patents / Washington DC 20231 on this date ) August 9 2000
For:	ADVANCED TELEVISION SYSTEM	) [date], Gerald T Shekleton, ) Registration No. 27, 466
		Attorney for Applicant(s)

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. Applicant avers that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent in a counterpart foreign application, and to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 1.56(c) more than three months prior to the filing of the information disclosure statement.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

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Respectfully submitted,

By

Gerald T. Shekleton Registration No. 27,466

Dated:

WELSH & KATZ, LTD. 120 South Riverside Plaza 22nd Floor Chicago, Illinois 60606

Telephone: 312/655-1500

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In Re Patent Application
NACHTFOGEL et al. - NDS Technologies Israel Ltd.
ADVANCED TELEVISION SYSTEM
N 09/515,118; Filed February 24, 2000

PATENT 78746 GTS/cb December 19, 2000

Supplemental Information Disclosure Statement; Form PTO -1449; Cited Reference; Postcard and Certificate of Mailing

Assistant Commissioner for Patents

Sir:

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Respectfully submitted,



**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In Re Patent Application Of

Wachtfogel et al.

Serial No.:

09/515,118

Filing Date:

February 28, 2000

For: ADVANCED TELEVISION SYSTEM

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents / Washington, DC 20231, on this date

Date: December 19, 2000

Gerald T Shekleton Reg No 27 466

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. The listed Document is an article and is enclosed herewith.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

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Serial No. 09/515,118

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art as defined by the patent law with respect to the instant invention and application.

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art could not possibly be in existence.

Respectfully submitted,

WELSH & KATZ, LTD.

It To Thekler

Gerald T. Shekleton

Registration No. 27,466

Dated: December 19, 2000

Welsh & Katz, Ltd.

120 South Riverside Plaza, 22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500



Form PTO-1449 U.S. Departme (Rev. 8-88) Patent and Trac

U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.
78746

Applicant
Wachtfogel et al

Filing Date
February 24, 2000

Serial No.
99/515,118

Group No.
2713

# INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

Examiner			1	S. PATENT DOCUMENTS		1	Filing D	ate
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				Date Considered				

\*Examiner:



In Re Patent Application

Wachfogel,et.al.,

**Advanced Television System** 

Serial NO: 09/515,118

Filed: February 28, 2000

78746 GTS/RP

February 22, 2001

Information Disclosure Statement; PTO Form 1449; Cited References; Andificate of Mailing and Postcard

Assistant Commissioner for Patents

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Respectfully submitted,

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Pa	tent Application	) Art Unit: 2713
Applicant:	Wachtfogel,et.al.	)  I hereby certify that this  correspondence is being deposited
Serial No.:	09/515,118	) with the United Postal Service as
Filed:	February 28, 2000	) first class mail in an envelope ) addressed to: Assistant ) Commissioner of Patents,
For:	ADVANCED TELEVISION SYSTEM	) Washington, DC 20231, on ) <u>February 22, 2001</u> )
		Reg. No. 27.466

#### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

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Respectfully submitted,

Gerald T. Shekleton

Registration No. 27,466

Dated: February 22, 2001

**Enclosures:** 

WELSH & KATZ, LTD.

120 South Riverside Plaza

22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500

Sheet 1 of 1 U.S. Department of Commerce Atty. Docket No. Serial No. (Rev. 5/92) Comparable to Patent and Trademark Office Form PTO-1449 78746 09/515,118 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Applicants Wachtfogetl,et.al., Filing Date Group 2713 February 28, 2001 U.S. PATENT DOCUMENTS Filing Date \*Examiner Class Subclass If Appropriate Document Number Date Name Initial 05/1998 Herz, et.al. Α 5,578,257 09/1997 Dimitriadis,et.al. 5,664,948 FOREIGN PATENT DOCUMENTS Translation Class Subclass Date Country Document Number Yes No Abs. WO 97/17774 5/1997 PCT Abs. WO 98/37696 8/1998 **PCT** Abs. WO 98/28869 7/1998 PCT. OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Date Considered Examiner Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not \*Examiner: considered. Include copy of this form with next communication to applicant.



In Re Patent Application

Wachfogel,et.al., **Advanced Television System** 

Filed: February 28, 2000

Substitute Information Disclosure Statement; PTO Form 1449; Certificate of Oal Postcard

Assistant Commissioner for Patents

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PATENT 78746 GTS/RP

February 28, 2001

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In Re U.S. Pa	tent Application	) Art Unit: 2713
Applicant:	Wachtfogel,et.al.	) ) I hereby certify that this ) correspondence is being deposited
Serial No.:	09/515,118	) with the United Postal Service as ) first class mail in an envelope
Filed:	February 28, 2000	) addressed to: Assistant ) Commissioner of Patents,
For:	ADVANCED TELEVISION SYSTEM	) Washington, DC 20231, on ) <u>February 28, 2001</u> ) <u>Crla To Shalatin</u> Reg No. 27 466

### SUBSTITUTE INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

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Gerald T. Shekleton

Registration No. 27,466

Dated: February 28, 2001

**Enclosures:** 

WELSH & KATZ, LTD.

120 South Riverside Plaza

22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500

(Rev. 5/92) Comparable to			6. Department of atent and Trade		Atty. Docket No.		Serial No.		
Form PTO-1449	)				78746		09/515,118		
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					Filing Date February 28, 2001	Group 2713			
				U.S. PATEN	T DOCUMENTS				
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In Re Patent Application Wachfogel,et.al.,

**Advanced Television System** 

Filed: February 28, 2000

PATENT 78746 GTS/RP May 30, 2001

Serial NO: 09/515,118 Supplemental Information Disclosure Statement; PTO Form 1449; Cited Reference; Cerlificate of Mailing and Postcard

Assistant Commissioner for Patents

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In Re U.S. Pat	ent Application	
Applicant:	Wachtfogel,et.al.,	) I hereby certify that this paper is being deposited with the United States Postal Service as first class mail
Serial No.:	09/515,118	) in an envelope addressed to: Assistant Commissioner () for Patents // Washington DC 20231 on this date:
Filed:	February 28, 2000	) May 30, 2001 Gerald T. Shekleton;
For:	ADVANCED TELEVISION SYSTEM	) Registration No. 27. 466 ) Attorney for Applicant(s)

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. Applicant avers that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent in a counterpart foreign application, and to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 1.56(c) more than three months prior to the filing of the information disclosure statement.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

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Respectfully submitted,

Bv

Gerald T. Shekleton

Registration No. 27,466

Dated: May 30, 2001

WELSH & KATZ, LTD.

120 South Riverside Plaza

22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500

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(Rev. 5/92) Comparable to Form PTO-144	infori	U.S. Department of Commerce Patent and Trademark Office  MATION DISCLOSURE CITATION (Use several sheets if necessary)			Atty. Docket No.		Serial No. 09/515,118		
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				Filing Date February 28, 2001	Group 2713				
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		WO 99/45702	09/10/1999	PCT				Abs.	
		WO 99/43111	08/26/1999	PCT				Abs.	
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In Re Patent Application Wachfogel,et.al.,

**Advanced Television System** 

Filed: February 28, 2000

GTS/RP December 17, 2001

PATENT 78746

Preliminary Amendment; Supplemental Information Disclosure Statement; PTO Form Serial NO: 09/515,118 1449; Cited Reference; Certificate of Mailing and Postcard

Commissioner for Patents

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Respectfully submitted,

78746 **PATENT** IN THE UNITED STATES PATENT AND TRADEMARK OFFICE In Re U.S. Patent Application Art Unit: 2713 I hereby certify that this correspondence is Applicant: Wachtfogel, et al. being deposited with the United Postal Service as first class mail in an envelope addressed to: 09/515,118 Serial No.: Commissioner of Patents, Washington, DC 20231, on December 17, 2001 Filed: February 24, 2000 TELEVISION For: ADVANCED Gerald T. Shekleton **SYSTEM** Reg. No. 27,466

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Not Assigned

Sir:

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Gerald T. Shekleton Registration No. 27,466

and T. Shelston

Dated: December 17, 2001

**Enclosures:** 

WELSH & KATZ, LTD.

120 South Riverside Plaza

22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500

PTO/SB/08A & PTO/SB/08B (10-01)
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	IK Substitute for Form PTO-SI		ich is a US PTO	Complete if Known		
Substitute for fo	orm 1449A/PTO and 14498/P	го		Application Number	09/515,118	
INFO	RMATION D	ISCI	OSURE	Filing Date	February 24, 2000	
1	STATEMENT BY APPLICANT  (use as many sheets as necessary)			First Named Inventor	WACHTFOGEL, et al.	
SIAI				Art Unit	2713	
				Examiner Name	Not Assigned	
Sheet			Attorney Docket Number	7251/78746		

OTHER ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Le		
	1	M.P. CECCARELLI; Metadata for Broadcasting; Philips Research (NL);			
	2	ERIC H.J. PERSOON; SMASH- a concept for advanced use of storage in the home; Philips Research Laboratories			
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	1				

Examiner	Date	
Signature	Considered	

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



In Re Patent Application Wachfogel, et al., **Advanced Television System** 

78746 GTS/RP

January 28, 2002

Serial No: 09/515,118 Filed: February 28, 2000 January 28, 2000 Information Disclosure Statement; Form PTO 1449; Cited References; Certificate of Mailing and Postcard

Commissioner for Patents

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78746 PATENT

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In Re U.S. Pa	itent Application	)	Art Unit: 2713
Applicant:	Wachogel, et al.		) I hereby certify that this correspondence is being deposited with the United Postal Service
Serial No.:	09/515,118		as first class mail in an envelope addressed to: Commissioner of Patents, Washington, DC
Filed:	February 28, 2000		20231, on <u>January 28, 2002</u>
For:	ADVANCED SYSTEM	TELEVISION	Gerald T. Shekleton Reg. No. 27,466
Evaminer:	Not Assigned	Ś	

#### INFORMATION DISCLOSURE STATEMENT

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Also, there is reserved the right to later set forth how the instant invention is distinguished

over the disclosure of any document or other art, including the disclosures of the art and

document(s) recited herein, that may be cited by the Examiner in rejecting a claim in the instant

patent application. The recitation herein of the art and document(s) is not to be construed as an

assertion that more pertinent art could not possibly be in existence.

Respectfully submitted,

Gerald T. Shekleton

Registration No. 27,466

Dated: January 28, 2002

Enclosures: Cited References

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	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			First Named Inventor	WACHFOGEL, et al.		
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Sheet	1	of	3	Attorney Docket Number	78746		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Ī	US-3,341,833	09/12/1967	Jones	
		US-3,645,539	02/29/1972	Jenkins	
		US-3,682,363	08/08/1972	Hull .	
		US-4,283,735	08/11/1981	Jagger	
		US-4,319,286	03/09/1982	Hanpachern	
		US-4,408,309	10/04/1983	Kiesling, et al.	
	_	US-4,430,676	02/07/1984	Johnson	
		US-4,445,195	04/24/1984	Yamamoto	
		US-4,530,048	07/16/1985	Proper	
·- <del></del>	····	US-4,633,331	12/30/1986	McGrady, et al.	
		US-4,706,121	11/10/1987	Young	
		US-4,876,670	10/24/1989	Nakabayashi, et al.	
	1	US-4,885,775	12/05/1989	Lucas	
***************************************		US-4,891,715	01/02/1990	Levy	
		US-4,908,713	03/13/1990	Levine	
•		US-4,963,886	10/16/1990	Duncan	
***************************************		US-4,963,994	10/16/1990	Levine	
		US-4,963,995	10/16/1990	Lang	
***************************************		US-4,977,455	12/11/1990	Young	
***************************************		US-4,991,033	02/05/1991	Takeshita	
tad of van I piet i Samphay, da 17 km aar tin 77		US-5,021,893	06/04/1991	Scheffler	
		US-5,038,211	. 08/06/1991	Hallenbeck	
		US-5,063,453	11/05/1991	Yoshimura, et al.	
~~~~~~~~~~	1	US-4,151,789	09/29/1992	Young	
	1	US-5,241,428	08/31/1993	Goldwasser, et al.	
		US-5,293,357	03/08/1994	Hallenbeck	
<del></del>	T	US-5,371,551	12/06/1994	Logan, et al.	
······································		US-5,390,027	02/14/1995	Henmi, et al.	
		US-5,440,336	08/08/1995	Buhro,et al.	
***************************************		US-5,477,262	12/19/1995	Banker, et al.	
		US-5,479,302	12/26/1995	Haines	
· · · · · · · · · · · · · · · · · · ·		US-5,508,815	04/16/1996	Levine	
	<b> </b>	US-5,508,940	04/16/1996	Rossmere, et al.	
***************************************		US-5,557,538	09/17/1996	Retter, et al.	
		US-5,568,272	10/22/1996	Levine	
		US-5,703,997	12/30/1997	Kitamura, et al.	

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10/24/2001 W	&K Substitute for Form PTO-	SB/08A, wh	ich is a US PTO	Complete if Known		
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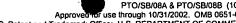
US-5,717,814	02/10/1998	Abecassis	
US-5,977,964	11/02/1999	Williams, et al.	
US-6,324,338	11/27/2001	Wood, et al.	

		FOREIGN	N PATENT DOCUM	IENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	1e
Initials*	No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	1,0
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	orm 1449A/PTQ and 1449B/F			Application Number	09/515,118	
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OTHER ART - NON PATENT LITERATURE DOCUMENTS							
Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Te					
	KAGEYAMA et al.; A FREE TIME-SHIFT DVD VIDEO RECORDER; Central Research Laboratory, Hitachi, Ltd.; 1997						
	ZHANG, et al.; Automatic partioning of a full-motion video; Multimedia Systems (1993) 1:10-28						
	ZHANG, et al.; Automatic parsing and indexing of news video; Multimedia Systems (1993) 2:256-266						
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		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, senal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  KAGEYAMA et al.; A FREE TIME-SHIFT DVD VIDEO RECORDER; Central Research Laboratory, Hitachi, Ltd.; 1997  ZHANG, et al.; Automatic partioning of a full-motion video; Multimedia Systems (1993) 1:10-28  ZHANG, et al.; Automatic parsing and indexing of news video; Multimedia Systems (1993)					

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In Re Patent Application

Wachfogel, et al.,

Advanced Television System

Filed: February 28, 2000 Serial No: 09/515,118

PATENT

78746

GTS/RP

February 4, 2002

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Respectfully submitted,

WELSH & KATZ, LTD.

**PATENT** 78746 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE In Re U.S. Patent Application Art Unit: 2713 Wachogel, et al. I hereby certify that this correspondence is Applicant: being deposited with the United Postal Service as first class mail in an envelope addressed to: Serial No.: 09/515,118 Commissioner of Patents, Washington, DC 20231, on February 4, 2002 Filed: February 28, 2000 **TELEVISION** For: ADVANCED **SYSTEM** Reg. No. 27,466 Not Assigned Examiner:

#### **CORRESPONDENCE**

Commissioner for Patents Washington, D.C. 20231

Sir:

Supplemental to the Information Disclosure Statement filed on January 28, 2002, applicant hereby submits the enclosed corrected Form PTO-1449 amending U.S. Patent No: 4,151,789 to 5,151,789.

Respectfully submitted,

Gerald T. Shekleton

Registration No. 27,466

Dated: February 4, 2002

Enclosures: Cited References

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Complete if Known 10/24/2001 W&K Substitute for Form PTO-SB/08A, which is a US PTO Substitute for form 1449A/PTO and 1449B/PTO **Application Number** 09/515,118 February 28, 2000 WACHFOGEL, et al. Filing Date INFORMATION DISCLOSURE First Named Inventor STATEMENT BY APPLICANT Art Unit 2713 **Examiner Name** (use as many sheets as necessary) of 3 Attorney Docket Number 78746 Sheet

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-3,341,833	09/12/1967	Jones	
		US-3,645,539	02/29/1972	Jenkins	
		US-3,682,363	08/08/1972	Hull	
<b></b>		US-4,283,735	08/11/1981	Jagger	
		US-4,319,286	03/09/1982	Hanpachern	
		US-4,408,309	10/04/1983	Kiesling, et al.	1. July 10
		US-4,430,676	02/07/1984	Johnson	a ) a la data i manda mari a man defetir de eferge pa kanp deste del sel en remai de 4 e respector mei y relad demplica mari
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		US-4,530,048	07/16/1985	Proper	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		US-4,633,331	12/30/1986	McGrady, et al.	1
######################################		US-4,706,121	11/10/1987	Young	
		US-4,876,670	10/24/1989	Nakabayashi, et al.	
		US-4,885,775	12/05/1989	Lucas	2 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10
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		US-4,963,886	10/16/1990	Duncan	
		US-4,963,994	10/16/1990	Levine	
		US-4,963,995	10/16/1990	Lang	
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	****	US-4,991,033	02/05/1991	Takeshita	
		US-5,021,893	06/04/1991	Scheffler	
		US-5,038,211	08/06/1991	Hallenbeck	
		US-5,063,453	11/05/1991	Yoshimura, et al.	
		US-5,151,789	09/29/1992	Young	
	1	US-5,241,428	08/31/1993	Goldwasser, et al.	
		US-5,293,357	03/08/1994	Hallenbeck	
		US-5,371,551	12/06/1994	Logan, et al.	
	1	US-5,390,027	02/14/1995	Henmi, et al.	
		US-5,440,336	08/08/1995	Buhro,et al.	
		US-5,477,262	12/19/1995	Banker, et al.	
		US-5,479,302	12/26/1995	Haines	
		US-5,508,815	04/16/1996	Levine	
		US-5,508,940	04/16/1996	Rossmere, et al.	
		US-5,557,538	09/17/1996	Retter, et al.	
		US-5,568,272	10/22/1996	Levine	
		US-5,703,997	12/30/1997	Kitamura, et al.	

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US-5,717,814	02/10/1998	Abecassis	
US-5,977,964	11/02/1999	Williams, et al.	
 US-6,324,338	11/27/2001	Wood, et al.	

	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	T6			
nitials*	No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	or Relevant Figures Appear	+-			
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A & PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for f	orm 1449A/PTO and 1449B/P	TO		Application Number	09/515,118	
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				First Named Inventor	WACHFOGEL, et al.	
STAT	STATEMENT BY APPLICANT  (use as many sheets as necessary)			Art Unit	2713	
]				Examiner Name		
Sheet	3	of	3	Attorney Docket Number	78746	

		OTHER ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T6
		KAGEYAMA et al.; A FREE TIME-SHIFT DVD VIDEO RECORDER; Central Research Laboratory, Hitachi, Ltd.; 1997	
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



In Re Patent Application

Wachfogel, et al.,

**Advanced Television System** 

Serial No: 09/515,118

Filed: February 28, 2000

PATENT 78746 GTS/RP

May 14, 2002

PTO-1449; Cited References; Supplemental Information Disclosure Statement,

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Certificate of Mailing and Postcard

Commissioner for Patents

Sir:
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Respectfully submitted,

WELSH & KATZ, LTD.

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	IN THE UNITED S	STATES PATENT AND	TRADEMARK OFFICE	
n Re U.S. Pa	tent Application	)	Art Unit: 2713	
Applicant:	Wachogel, et al.	)	I hereby certify that this corres	pondence is ostal Service

TO A CITTATE

Serial No.: 09/515,118

) as first class mail in an envelope addressed to:

Commissioner of Patents, Washington, DC

20231, on May 14, 2002

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For: ADVANCED TELEVISION ) Collis Tollis

SYSTEM

) Gerald T. Shekleton
Reg. No. 27,466

Examiner: Not Assigned )

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.97, a list of documents is disclosed on the attached Form PTO-1449 that may be material to the examination of this application. Listed documents are foreign patents and cited references that are discussed in the application, and are enclosed herewith.

Documents for which the supplied date of publication lists the year of publication without the month were published sufficiently earlier than the effective U.S. filing date and any foreign priority date, so that the particular month of publication is not in issue. Pursuant to §609 of the MPEP, it is understood that the month of publication is not required when the particular month of publication is not in issue.

No inferences should be drawn that the attached list represents a comprehensive investigation, or that any material disclosed is equivalent to the subject invention. In addition, none of the documents that have publication dates prior to the priority date of the above application anticipate the invention in this application.

The cited document(s) disclose numerous specific features. There has been no attempt to

list each and every feature disclosed by each document. The Examiner is requested to review the

document(s) and determine the extent of the materiality of the document disclosures with respect to

the present invention.

The discussion of any art and the citation of any document(s) herein is not to be construed

as an admission that the art or document disclosure is necessarily within the invention field of

endeavor, that the art or document disclosure is necessarily prior in time to a particular date which

may be relevant to the instant patent application, and/or that the art or document disclosure is

otherwise necessarily prior art as defined by the patent law with respect to the instant invention and

application.

Also, there is reserved the right to later set forth how the instant invention is distinguished

over the disclosure of any document or other art, including the disclosures of the art and

document(s) recited herein, that may be cited by the Examiner in rejecting a claim in the instant

patent application. The recitation herein of the art and document(s) is not to be construed as an

assertion that more pertinent art could not possibly be in existence.

Respectfully submitted,

Gerald T. Shekleton

Registration No. 27,466

Dated: May 14, 2002

Enclosures: Cited References

WELSH & KATZ, LTD.

120 South Riverside Plaza

22nd Floor

Chicago, Illinois 60606

Telephone: 312/655-1500



PTO/SB/08A & PTO/SB/08B (10-01) Approved for use through 10/31/2002. OMB 0651-0031
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Complete if Known 10/24/2001 W&K Substitute for Form PTO-SB/08A, which is a US PTO Substitute for form 1449A/PTO and 1449B/PTO Application Number 09/515,118 Filing Date February 28, 2000 INFORMATION DISCLOSURE WACHFOGEL, et al. **First Named Inventor** STATEMENT BY APPLICANT 2713 Art Unit **Examiner Name** (use as many sheets as necessary) Attorney Docket Number 78746 of 2 Sheet

	T 0'4	T. Danisant Number	U.S. PATENT D Publication Date	Name of Patentee or Applicant	Pages Columns Lines Where
xaminer nitials*	Cite No.1	Document Number Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,930,158	05/29/1990	Vogel	
		5,552,837	09/03/1996	Mankovitz	
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INFORMATION DISCLOSURE				First Named Inventor	WACHFOGEL, et al.	
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Sheet	2	of	2	Attorney Docket Number	78746	

Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines,	l
			Applicant of Orlea Bocament	Where Relevant Passages or Relevant Figures Appear	T6
	WO/97 06531	02/20/1997	Sony Corporation		_
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



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				First Named Inventor	WACHFOGEL, et al.	
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(use as many sheets as necessary)				Examiner Name		
Sheet	3	of	2	Attorney Docket Number	78746	

OTHER ART - NON PATENT LITERATURE DOCUMENTS						
Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Te			
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## **EUROPEAN SEARCH REPORT**

**Application Number** EP 01 20 4250

		ED TO BE RELEVANT	Belowers	ALABORA TION OF THE
ategory	Citation of document with Indic of relevant passage	ation, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
x	WO 97 50250 A (BREITH TELECOMMUNICATIONS IN 31 December 1997 (199 * page 3, line 5-18 *	7-12-31)	1-12	G11B20/00 G11B27/10 H04N5/44
X	US 4 930 158 A (VOGEL 29 May 1990 (1990-05- * the whole document	29)	1-12	
<i>ر</i> x	US 5 552 837 A (MANKO 3 September 1996 (199 * column 10, line 43-	6-0 <b>9-</b> 03)	1-12	
X	WO 97 06531 A (SONY C (JP); FUJINAMI YASUSH 20 February 1997 (199 * page 65, line 7 - p	II (JP); HAAN WIEBE) 77-02-20)	1–12	
				TECHNICAL FIELDS
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	THE HAGUE	14 February 2002	, Moi	ırtk, J
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EP 01 20 4250

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-02-2002

	Patent docume cited in search re	• • •	Publication date		Patent:ferr member(		Publication date
WO	9750250	A	31-12-1997	AU	3162497	A	14-01-1998
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				EP	0914744	A1	12-05-1999
				JP	2000512463	T	19-09-2000
US	4930158	A	29-05-1990	AU	611710	B2:	20-06-1991
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				GB	2209427	A ,B	10-05-1989
				US	4930160		29-05-1990
US	5552837	A	03-09-1996	US	5559550	A	24-09-1996
WO.	9706531	Α	20-02-1997	AU	714628	B2	06-01-2000
				AU	6630496	Α	05-03-1997
				BR	9606567	A	30-12-1997
				CA	2200346	A1	20-02-1997
				CN	1213832	A	14-04-1999
				ΕP	0784848	A1	23-07-1997
				WO	9706531	A1	20-02-1997
	•			JP	9106631	Α	22-04-1997





Zweigstelle in Den Haag Recherchenabteilung

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#### European Patent Office

Branch at The Hague Search division Office européen des brevets

Département à La Hays Division de la recherche

White, Duncan Rohan Edward Evans Barker One London Road Staines, Middlesex TW18 4EX GRANDE BRETAGNE

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Datum/Dale

21.02.02

Zeichen/Ref./Ref. P01/222 Anmeldung Nr/Application No/Demande n°/Patent Nr./Patent No/Brevet n°.

01204250.3-2202-

Anmelder/Applicant/Demandeur/Patentinhabes/Proprietor/Titulaire
NDS Limited

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

X abstract

₩ title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1B

### REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





U.S. Patent Application

Welsh & Katz Ref. No: 7251/78746

Wachtfogel et al.

Serial No.: 09/515,118; Filed 24 Feb. 2000

11/13/2002

Advanced Television System 11/13/ Transmittal Form with Certificate of Mailing; Supplemental Preliminary Amendment; Information Disclosure Statement (2 pgs); Form PTO 14/9;

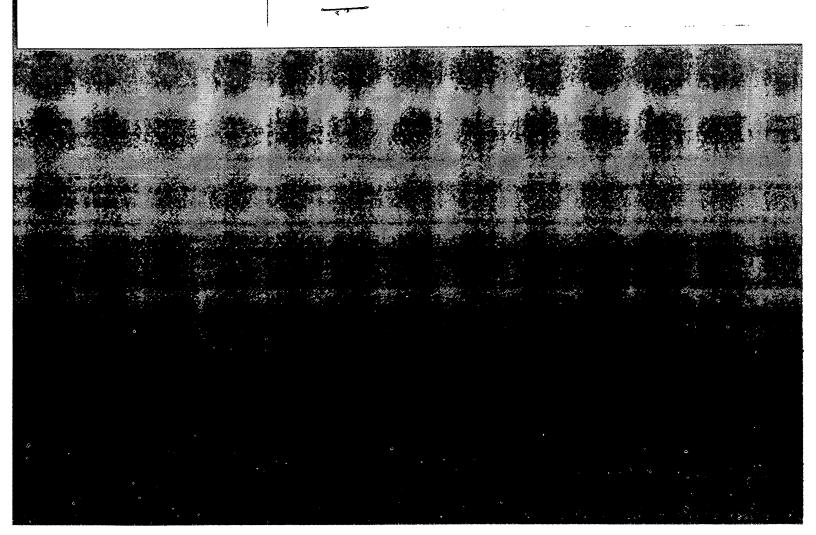
Copies of Listed Documents; Certificate of Mailing

Please acknowledge receipt of the above-identified documents by applying the Patent and Trademark Office receipt hereto and mailing this card.

Respectfully, Welsh & Katz, Ltd.

LF:smm

Sir:



# PATENT 7251/78746

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Wachtfogel et al.	)
Serial No.:	09/515,118	)
Filed:	24 February 2000	) I hereby certify that this paper is being deposited with the United States Postal Service as
For:	Advanced Television System	<ul> <li>U.S. First Class Mail in an envelope addressed to:</li> <li>Commissioner for Patents, Washington, DC 20231,</li> <li>on this date:</li> </ul>
Group No.:	2713	Date: 13 November 2002
Examiner:	Not Yet Known	Date: 13 Movember 2002 0 () )

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir or Madam:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants submit a list of documents, general remarks, an attached Form PTO-1449, and an enclosed copy of each of this listed documents.

U.S. Patent No.	Date of Issue	Patentee(s)
4,930,158	29 May 1990	Vogel
5,701,383	23 Dec. 1997	Russo et al.
EP Application No.	Date of Publication	
0 584 991 A2	2 Mar. 1994	

Other Publication

Ceccarelli, M.P.; "Metadata for Broadcasting" (MPEG-7 Workshop, XP-002117667, 1998)

Each of the above-listed publications was identified in a foreign search report in connection with a foreign application which is a counterpart to the captioned application. It is respectfully requested that they be given consideration by the Examiner and made of record in the captioned patent application. The foreign search report (sent on 15 October 2002 in connection with Application EP 02 00 0773) is enclosed.

Respectfully submitted,

WELSH & KATZ, LTD.

By

L. Friedman Reg. No. 37,135

13 November 2002 WELSH & KATZ, LTD. 120 South Riverside Plaza 22nd Floor Chicago, Illinois 60606 Phone: (312) 655-1500

Fax:

(312) 655-1501

Form PTO-144 (Rev. 8-88)	U.S. Department of Commerce Patent and Trademark Office			Attorney Docket No. 7251/78746			Serial No. 09/515,118		
		FORMATION DISCLOSURE STATEMENT		Applicant Wachtfogel et al.					
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Examiner	Descript Number	Date	Name		Class	Subclass	Filing Date If Appropriate		
Initial*	Document Number 4,930,158	29 May 1990	Vogel	valle	Olass	Outolage			
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	OTHER DO	CUMENTS (Includ	ling Author, Titl	e, Date, Pertin	ent Pages, E	itc.)			
	Ceccarelli, M.P.; "Met	adata for Broadcas	sting" (MPEG-7	Workshop, XP	002117667, 1	1998)			
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Welsh & Katz Ref. No: 7251/78746

U.S. Patent Application

Applicant: Wachtfogel et al.

Serial No.: 09/515,118, Filed 02/24/2000

Express Mail No. EV 045459940 US

Supplemental Information Disclosure Statement (5 pgs) with certificate of mailing; Form PTO-1449 (4 pgs); copy of each listed document 21 January 2003

Sir or Madam:

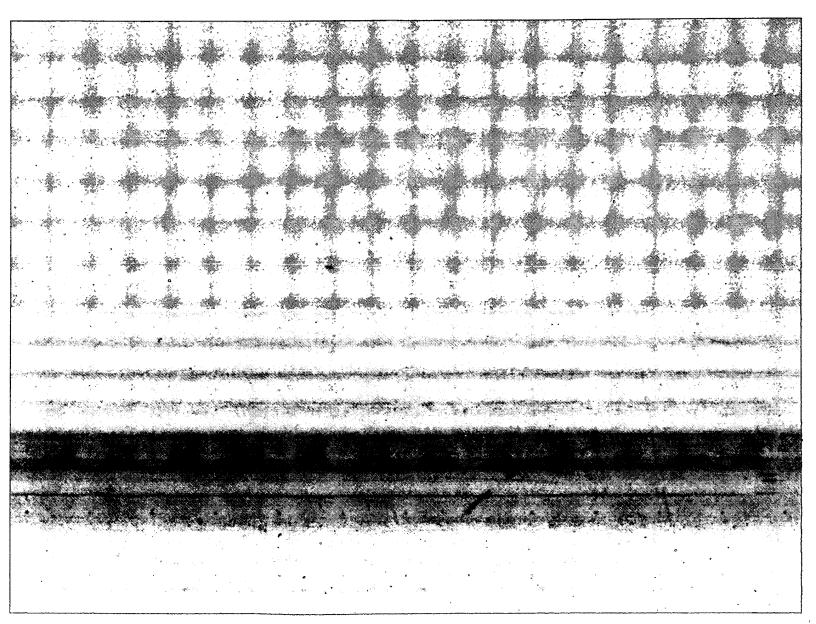
Please acknowledge receipt of the above-identified documents by approximant Patent and Trademark Office receipt hereto and mailing this card.

Respectfully,

Welsh & Katz, Ltd.

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Wachtfogel et al.	)
Serial No.:	09/515,118	)
Filed:	24 February 2000	) I hereby certify that this paper is being deposited with the United States Postal Service as
For:	ADVANCED TELEVISION SYSTEM	Express Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on this date:
Group No.:	2713	Date: 21 January 2003
Examiner:	Not Yet Assigned	) Express Mail No. EV 045459940 US )

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir or Madam:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants submit a list of documents, general remarks, an attached Form PTO-1449, and an enclosed copy of each listed document.

U.S. Patent No.	Date of Issue	Inventor
4,602,279	07/22/1986	Freeman
5,223,924	06/29/1993	Strubbe
5,353,121	10/04/1994	Young et al.

5,479,266	12/26/1995	Young et al.
5,479,268	12/26/1995	Young et al.
5,524,195	06/04/1996	Clanton et al.
5,534,911	07/09/1996	Levitan
5,550,576	08/27/1996	Klosterman
5,659,366	08/19/1997	Kerman
5,664,046	09/02/1997	Abecassis
5,717,923	02/10/1998	Dedrick
5,721,827	02/24/1998	Logan et al.
5,737,029	04/07/1998	Ohkura et al.
5,793,438	08/11/1998	Bedard
5,801,747	09/01/1998	Bedard
5,867,799	02/02/1999	Lang et al.
5,940,073	08/17/1999	Klosterman et al.
5,945,988	08/31/1999	Williams et al.
5,973,683	10/26/1999	Cragun et al.
5,991,735	11/23/1999	Gerace
6,020,883	02/01/2000	Herz et al.
6,044,403	03/28/2000	Gerzsberg et al.
6,078,348	06/20/2000	Klosterman et al.
6,088,722	07/11/2000	Herz et al.

6,119,098	09/12/2000	Guyot et al.
6,128,009	10/03/2000	Ohkura et al.
6,133,909	10/17/2000	Schein et al.
6,151,059	11/21/2000	Schein et al.
6,247,176	06/12/2001	Schein et al.
6,286,140 B1	09/04/2001	Ivanyi
6,405,370 B1	06/11/2002	Jarrell
6,438,752 B1	08/20/2002	McClard

U.S. Patent Application	Date of Publication	Inventor
2001/0007147 A1	5 Jul. 2001	Goldschmidt Iki et al.
2002/0053084 A1	2 May 2002	Escobar et al.
2002/0056098 A1	9 May 2002	White
2002/0059094 A1	16 May 2002	Hosea et al.
2002/0059606 A1	16 May 2002	Kikinis et al.
2002/0077880 A1	20 Jun. 2002	Gordon et al.
2002/0083468 A1	27 Jun. 2002	Dudkiewicz
2002/0087979 A1	4 Jul. 2002	Dudkiewicz et al.
2002/0087987 A1	4 Jul. 2002	Dudkiewicz et al.
2002/0097265 A1	25 Jul. 2002	Kurapati et al.
2002/0100046 A1	25 Jul. 2002	Dudkiewicz

2002/0104081 A1	1 Aug. 2002	Candelore et al.
2002/0104087 A1	1 Aug. 2002	Schaffer et al.
2002/0116710 A1	22 Aug. 2002	Schaffer et al.
2002/0120943 A1	29 Aug. 2002	Seto et al.

Foreign Patent Publication	Date of Publication	Country
WO 90/00847	01/25/1990	PCT
WO 91/07050	05/16/1991	PCT
WO 92/04801	03/19/1992	PCT
WO 95/31069	11/16/1995	PCT
WO 98/08192	02/26/1998	PCT

### General Remarks

Application Ser. No. 09/242,871 is a currently pending application with inventorship partially in common with the captioned application, and which the captioned application incorporates by reference. All of the documents listed above were previously identified in and submitted with an information disclosure statement which was filed for Ser. No. 09/242,871 or identified by the examiner in connection with that application, and it is prudent to identify them in an information disclosure statement in the captioned application.

It is respectfully requested that each of the above-listed documents be given consideration by the Examiner and made of record in the captioned patent application.

Respectfully submitted,

L. Friedman

Reg. No. 37,135

21 January 2003 WELSH & KATZ, LTD. 120 South Riverside Plaza 22nd Floor Chicago, Illinois 60606 Phone: (312) 655-1500 Fax: (312) 655-1501

Form PTO-1449 (Rev. 8-88)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 7251/78746	Serial No. 09/515,118	
INFORMATION DISCLOSURE STATEMENT		Applicant Wachtfogel et al.		
(Use s	everal sheets if necessary)	Filing Date 24 February 2000	Group No. 2713	

#### **U.S. PATENT DOCUMENTS** Filing Date If Appropriate Examiner Name Class Subclass **Document Number** Date Initial\* 07/22/1986 Freeman 4,602,279 06/29/1993 Strubbe 5,223,924 10/04/1994 Young et al. 5,353,121 12/26/1995 Young et al. 5,479,266 Young et al. 5,479,268 12/26/1995 06/04/1996 Clanton et al. 5,524,195 07/09/1996 Levitan 5,534,911 08/27/1996 Klosterman 5,550,576 08/19/1997 Kerman 5,659,366 09/02/1997 Abecassis 5,664,046 Dedrick 5,717,923 02/10/1998 Logan et al. 02/24/1998 5,721,827 04/07/1998 Ohkura et al. 5,737,029 08/11/1998 Bedard 5,793,438 09/01/1998 Bedard 5,801,747 Lang et al. 5,867,799 02/02/1999 Klosterman et al. 08/17/1999 5,940,073 08/31/1999 Williams et al. 5,945,988 Cargun et al. 10/26/1999 5,973,683 Date Considered Examiner

\*Examiner:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-14 (Rev. 8-88)		S. Department of atent and Tradem		Attorney Do 7251/78746	cket No.		ial No. 515,118
	INFORMATION DISCLOS		NT	Applicant Wachtfogel et al.			
	(Use several sheets	if necessary)		Filing Date 24 February	2000	Gro 271	oup No. 3
		U.S. PA	ATENT DOCUM	ENTS			
Examiner Initial*	Document Number	Date	N	ame	Class	Subclass	Filing Date If Appropriate
	5,991,735	11/23/1999	Gerace				
	6,020,883	02/01/2000	Herz et al.				
	6,044,403	03/28/2000	Gerzsberg e	al.			
	6,078,348	06/20/2000	Klosterman e	et al.			
	6,088,722	07/11/2000	Herz et al.		1		
	6,119,098	09/12/2000	Guyot et al.				
	6,128,009	10/03/2000	Ohkura et al				
	6,133,909	10/17/2000	Schein et al.				
	6,151,059	11/21/2000	Schein et al.				
	6,247,176	06/12/2001	Schein et al.				
	6,286,140 B1	09/04/2001	Ivanyi				
	6,405,370 B1	06/11/2002	Jarrell				
	6,438,752 B1	08/20/2002	McClard				
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*Examiner:	Initial if citation consideration if not in conformation.	dered, whether or n rmance and not co	ot citation is in considered. Include	nformance with copy of this form	MPEP 609; n with next	Draw line the communication	nrough tion to

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Form PTO-14 (Rev. 8-88)	49 U P	.S. Department of atent and Tradema	Commerce ork Office	Attorney Doc 7251/78746	ket No.		ial No. 515,118
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		U.S. PATENT AF	PPLICATION PU	BLICATIONS			
Examiner Initial*	Document Number	Date	1	ıme	Class	Subclass	Filing Date If Appropriate
	2001/0007147 A1	5 Jul. 2001	Goldschmidt II	ki et al.			
	2002/0053084 A1	2 May 2002	Escobar et al.				
	2002/0056098 A1	9 May 2002	White				
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	2002/0083468 A1	27 Jun. 2002	Dudkiewicz				
	2002/0087979 A1	4 Jul. 2002	Dudkiewicz et	al.	1		
	2002/0087987 A1	4 Jul. 2002	Dudkiewicz et	al.			
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	2002/0100046 A1	25 Jul. 2002	Dudkiewicz				
	2002/0104081 A1	1 Aug. 2002	Candelore et	al.			
	2002/0104087 A1	1 Aug. 2002	Schaffer et al.				
	2002/0116710 A1	22 Aug. 2002	Schaffer et al.				
	2002/0120943 A1	29 Aug. 2002	Seto et al.				
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	OTHER DO	CUMENTS (Includ	ing Author, Title,	Date, Pertinent	Pages, E	tc.)	
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Form PTO-1449 (Rev. 8-88)	P	S. Department of atent and Trader	mark Office	Attorney I 7251/7874 Applicant			il No. 15,118		
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	Document Number WO 90/00847	Date 01/25/1990	PCT	untry	Class	Subclass	Yes_	No	
	WO 91/07050	05/16/1991	PCT						
	WO 92/04801	03/19/1992	PCT						
	WO 95/31069	11/16/1995	PCT				ļ <u> </u>		
	WO 98/08192	02/26/1998	PCT						
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U.S. Patent Application Applicant: Wachtfogel et al. Serial No.: 09/515,118, Filed 02/24/2000

Welsh & Katz Ref. No: 7251/78746 13 May 2003

Supplemental Information Disclosure Statement (2 pgs) with certificate of mailing; Form PTO-1449 (1 pg); copy of each listed document

Please acknowledge receipt of the above-identified documents by applying the Patent and Trademark Office receipt hereto and mailing this card.

Respectfully,

LF:smm

Welsh & Katz, Ltd.



Applicants:	Wachtfogel et al.	)
Serial No.:	09/515,118	)
Filed:	24 February 2000	) I hereby certify that this paper is being deposited with the United States Postal Service as
For:	ADVANCED TELEVISION SYSTEM	First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date:
Group No.:	2713	) Supenne M Wattingly
Examiner:	Not Yet Assigned	) Date: 13 May 2003

### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir or Madam:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants submit a list of documents, general remarks, an attached Form PTO-1449, and an enclosed copy of each listed document.

U.S. Patent No.	Date of Issue	Inventor
5,491,795	02/13/1996	Beaudet et al.
6,446,261	09/03/2002	Rosser

### General Remarks

Application Ser. No. 09/242,871 is a currently pending application with inventorship partially in common with the captioned application, and which the captioned application incorporates by reference. All of the documents listed above were recently identified by the examiner in connection with that application, and it is prudent to identify them in an information disclosure statement in the captioned application.

It is respectfully requested that each of the above-listed documents be given consideration by the Examiner and made of record in the captioned patent application.

Respectfully submitted,

L. Friedman

Reg. No. 37,135

13 May 2003 WELSH & KATZ, LTD. 120 South Riverside Plaza 22nd Floor Chicago, Illinois 60606 Phone: (312) 655-1500

Fax:

(312) 655-1501

Form PTO-144 (Rev. 8-88)	19 U P	U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 7251/78746			Serial No. 09/515,118		
INFORMATION DISCLOSURE STATEMEN (Use several sheets if necessary)			Applicar Wachtfo		nt ogel et al.				
				Filing Date 24 February 2		Grot 271:	oup No. 3		
		U.S. P	ATENT DOCUM	IENTS		•			
Examiner Initial*	Document Number	Document Number Date		ame Class		Subclass	Filing Date If Appropriate		
	5,491,795	02/13/1996	Beaudet et	al.					
	6,446,261	09/03/2002	Rosser						
Examiner			Date Consid						
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U.S. Patent Application

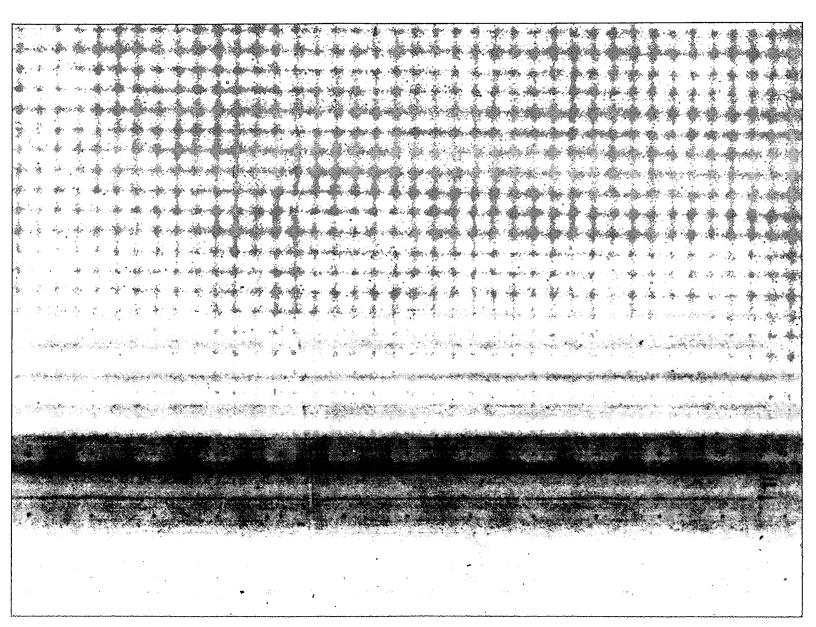
Welsh & Katz Ref. No: 7251/78746

Wachtfogel et al.
Serial No.: 09/515,118; Filed 24 Feb. 2000
Advanced Television System

9/8/2004

Transmittal Form with Certificate of Mailing (1 pg); Supplemental Information Disclosure Statement (2 pgs); Form PTO 1449 (1 pg); Copy of Listed Document; Certificate of Mailing





## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Wachtfogel et al.	)
09/515,118	) I hereby certify that this paper is being deposited with the United States Postal Service as U.S. First Class Mail in an envelope addressed to
24 February 2000	) Commissioner for Patents, P.O. Box 1450 ) Alexandria, VA 22313-1450, on this date:
ADVANCED TELEVISION SYSTEM	) Suzanne Mattingly ) Date: 8 September 2004
Hai V. Tran	)
2611	) ). )
	09/515,118  24 February 2000  ADVANCED  TELEVISION SYSTEM  Hai V. Tran

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir or Madam:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants submit a list of documents, general remarks, an attached Form PTO-1449, and copy of the document listed.

U.S. Patent No.	Date of Issue	Inventor
5,621,456	15 Apr. 1997	Florin et al.

The above-listed document was cited by the EPO in connection with prosecution of a corresponding foreign application. It is respectfully requested that the above-listed document be given consideration by the Examiner and made of record in the captioned patent application.

Respectfully submitted,

WELSH & KATZ, LTD.

By

L. Friedman Reg. No. 37,135

8 September 2004 WELSH & KATZ, LTD. 120 South Riverside Plaza 22nd Floor Chicago, Illinois 60606 Phone: (312) 655-1500

Fax: (312) 655-1501

Form PTO-1449 (Rev. 8-88)	Form PTO-1449  Rev. 8-88)  U.S. Department of Commerce Patent and Trademark Office  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Attorney Docket No. 7251/78746		Seria	Serial No. 09/515,118		
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